

I CLAIM;

Sub 931 A monitoring system to provide for monitoring of a plurality of monitored persons, the monitoring system comprising:

a) a portable monitoring device for each of the monitored persons, each portable monitoring device comprising:

1) securing means to provide for secure attachment of the portable monitoring device to a respective monitored person;

2) monitoring means to provide for detecting a bodily signal produced by the monitored person;

3) transmitting means to provide for transmission of a signal;

b) transmission acquisition means to provide for receiving the signals sent out by each of the portable monitoring devices;

c) bodily signal reference creation means to provide for creation of a bodily signal reference as detected by the monitoring means; and

d) storage means to provide for an archival retention within a database of at least a series of bodily signal references of each of the portable monitoring devices of the monitoring system.

2. The monitoring system defined in claim 1 wherein the portable monitoring device further comprises tamper detection means to provide for detecting tampering with the portable monitoring device attached to the respective monitored person.

3. The monitoring system defined in claim 2 wherein the portable monitoring device further comprises:

a) receiving means to provide for receiving a distinct signal generated by a detached sending unit;

b) intervention means to provide for a mechanical intervention to physically dissuade the respective monitored person from a specific course of action.

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4. The monitoring system defined in claim 1 wherein the bodily signal detected by the monitoring means ~~further~~ comprises a blood pressure determination.

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5. The monitoring system defined in claim 1 wherein the bodily signal detected by the monitoring means ~~further~~ comprises a heart beat rate.

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6. The monitoring system defined in claim 1 wherein the bodily signal detected by the monitoring means ~~further~~ comprises a respiration rate.

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7. The monitoring system defined in claim 1 wherein the bodily signal detected by the monitoring means ~~further~~ comprises a bodily temperature measurement.

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8. The monitoring system defined in claim 1 wherein the bodily signal detected by the monitoring means ~~further~~ comprises a blood oxygen level.

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9. The monitoring system defined in claim 1 wherein the bodily signal detected by the monitoring means ~~further~~ comprises a blood alcohol level.

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10. The monitoring system defined in claim 1 wherein each portable monitoring device further comprises receiving means to provide for receiving a distinct signal generated by a detached sending unit; and wherein the monitoring system further comprises positional determining means to provide for generating a position reference indicative of a positional location of each of the portable monitoring devices based upon the distinct signal received by the respective receiving means; and wherein the storage means further provides for an archival retention within the database of at least a series of the position references of each of the portable monitoring devices of the monitoring system.

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11. The monitoring system defined in claim 10 wherein the monitoring system

further comprises temporal marking means to provide for indicating, within at least a range of temporal references, an associated occurrence reference indicative of when the position reference to the positional location of each of the portable monitoring device occurred, and wherein the storage means further provides for an archival retention within the database of at least a series of the associated occurrence references of each of the portable monitoring devices of the monitoring system.

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12. A tracking system to provide for tracking of a plurality of monitored persons, the tracking system comprising:

a) a portable monitoring device for each of the monitored persons, each portable monitoring device comprising:

- 1) securing means to provide for secure attachment of the portable monitoring device to a respective monitored person;
- 2) tamper detection means to provide for detecting tampering with the portable monitoring device attached to the respective monitored person;
- 3) receiving means to provide for receiving a distinct signal generated by

¹⁰ a detached sending unit;

- 4) transmitting means to provide for transmission of a signal;
- 5) intervention means to provide for a mechanical intervention to physically dissuade the respective monitored person from a specific course of action;

b) transmission acquisition means to provide for receiving the signals sent out by each of the portable monitoring devices;

c) positional determining means to provide for generating a position reference indicative of a positional location of each of the portable monitoring devices based upon the distinct signal received by the respective receiving means;

d) a conditional database having an entry for each portable monitoring device defining rules of conduct for each respective ^{monitored person} ~~portable monitoring device~~;

e) violation comparison means to provide for a comparison of a status of each portable monitoring device indicative of the specific course of action of the respective

monitored person against a respective entry within the conditional database to determine if a violation condition exists; and

f) intervention activation means to provide for broadcasting a signal for reception by a respective portable monitoring device in response to an indication from the violation comparison means where the respective portable monitoring device activates the intervention means to dissuade the respective monitored person from the specific course of action which was detected by the violation comparison means.

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~~13~~. The tracking system defined in claim ¹⁰~~12~~ wherein the intervention means further comprises a delivery of a medication.

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~~14~~. The tracking system defined in claim ¹⁰~~12~~ wherein the intervention means further comprises a delivery of an electrical shock.

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~~15~~. The tracking system defined in claim ¹⁰~~12~~ further ^{comprising} comprises storage means to provide for an archival retention within a database of at least a series of the position references of each of the portable monitoring devices of the tracking system.

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~~16~~. The tracking system defined in claim ¹³~~15~~ wherein the tracking system further comprises temporal marking means to provide for indicating, within at least a range of temporal references, an associated occurrence reference indicative of when the position reference to the positional location of each of the portable monitoring device occurred, and wherein the storage means further provides for an archival retention within the database of at least a series of the associated occurrence references of each of the portable monitoring devices of the tracking system.

17. A dual tracking system to provide for locational tracking of at least one pair of monitored persons, the pair of monitored persons having a restrictee person and a restrictor person, the dual tracking system comprising:

a) a restrictee portable monitoring device for the restrictee person of the pair of monitored persons, the restrictee portable monitoring device comprising:

- 1) securing means to provide for secure attachment of the restrictee portable monitoring device to the restrictee person;
- 2) tamper detection means to provide for detection of tampering with the restrictee portable monitoring device attached to the restrictee person;
- 3) restrictee receiving means to provide for receiving a distinct signal generated by a detached sending unit;
- 4) monitoring means to provide for detecting a bodily signal produced by the restrictee person;
- 5) restrictee transmitting means to provide for restrictee transmission of a restrictee signal;

b) a restrictor portable monitoring device for the restrictor person of the pair of monitored persons, the restrictor portable monitoring device comprising:

- 1) transport means to provide for the restrictor person to transport the restrictor portable monitoring device therewith;
- 2) restrictor receiving means to provide for receiving a distinct signal generated by the detached sending unit;
- 3) restrictor transmitting means to provide for restrictor transmission of a restrictor signal;

c) transmission acquisition means to provide for receiving the restrictee signal and the restrictor signal;

d) restrictee positional determining means to provide for generating a restrictee position reference indicative of a restrictee positional location of the restrictee portable monitoring device;

e) restrictor positional determining means to provide for generating a restrictor position reference indicative of a restrictor positional location of the restrictor portable monitoring device;

f) comparison means to provide for comparing the restrictee position reference

and the restrictor position reference subsequent to the transmission acquisition means receiving the restrictee signal and the restrictor signal;

g) notification means to provide for generating a notification in the event that the restrictee position reference and the restrictor position reference are within a predetermined distance measurement range;

h) restrictee bodily signal reference creation means to provide for creation of a restrictee bodily signal reference as detected by the monitoring means; and

i) storage means to provide for an archival retention within a database of at least a series of the restrictee position references and restrictee bodily signal references.

18. The dual tracking system defined in claim 17 further comprising temporal marking means to provide for indicating within at least a range of temporal references an associative restrictee occurrence reference indicative of when the restrictee receiving means received the distinct signal; and wherein the storage means further provides for an archival retention within the database of at least a series of the associative restrictee occurrence references.

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19. A dual tracking system to provide for locational tracking of at least one pair of monitored persons, the pair of monitored persons having a restrictee person and a restrictor person, the dual tracking system comprising:

a) a restrictee portable monitoring device for the restrictee person of the pair of monitored persons, the restrictee portable monitoring device comprising:

1) securing means to provide for secure attachment of the restrictee portable monitoring device to the restrictee person;

2) tamper detection means to provide for detection of tampering with the restrictee portable monitoring device attached to the restrictee person;

3) restrictee receiving means to provide for receiving a distinct signal generated by a detached sending unit;

4) restrictee transmitting means to provide for restrictee transmission of a

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restrictor signal;

5) intervention means to provide for a mechanical intervention to physically dissuade the respective restrictee person from a specific course of action;

b) a restrictor portable monitoring device for the restrictor person of the pair of monitored persons, the restrictor portable monitoring device comprising:

1) transport means to provide for the restrictor person to transport the restrictor portable monitoring device therewith;

2) restrictor receiving means to provide for receiving a distinct signal generated by the detached sending unit;

3) restrictor transmitting means to provide for restrictor transmission of a restrictor signal;

c) transmission acquisition means to provide for receiving the restrictee signal and the restrictor signal;

d) restrictee positional determining means to provide for generating a restrictee position reference indicative of a restrictee positional location of the restrictee portable monitoring device;

e) restrictor positional determining means to provide for generating a restrictor position reference indicative of a restrictor positional location of the restrictor portable monitoring device;

f) comparison means to provide for comparing the restrictee position reference and the restrictor position reference subsequent to the transmission acquisition means receiving the restrictee signal and the restrictor signal;

g) notification means to provide for generating a notification in the event that the restrictee position reference and the restrictor position reference are within a predetermined distance measurement range; and

h) intervention activation means to provide for broadcasting a signal for reception by a respective restrictee portable monitoring device in response to an indication from the comparison means where the respective restrictee portable monitoring device activates the intervention means to dissuade the respective

restrictive person from the specific course of action which was detected by the comparison means.

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20. The dual tracking system defined in claim ¹⁵~~19~~ further comprising storage means to provide for an archival retention within a database of at least a series of the restrictive position references.

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21. The dual tracking system defined in claim ¹⁶~~20~~ further comprising temporal marking means to provide for indicating within at least a range of temporal references an associative restrictive occurrence reference indicative of when the restrictive receiving means received the distinct signal; and wherein the storage means further provides for an archival retention within the database of at least a series of the associative restrictive occurrence references.

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22. The dual tracking system defined in claim ¹⁵~~19~~ wherein the intervention means further comprises a delivery of a medication.

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23. The dual tracking system defined in claim ¹⁵~~19~~ wherein the intervention means further comprises a delivery of an electrical shock.